

Calexico-Mexicali Work Plan Update and Recent PM Air Quality and Trends



CALIFORNIA
AIR RESOURCES BOARD

April 4, 2019

Draft Work Plan Actions Initiated

Public Education and Awareness

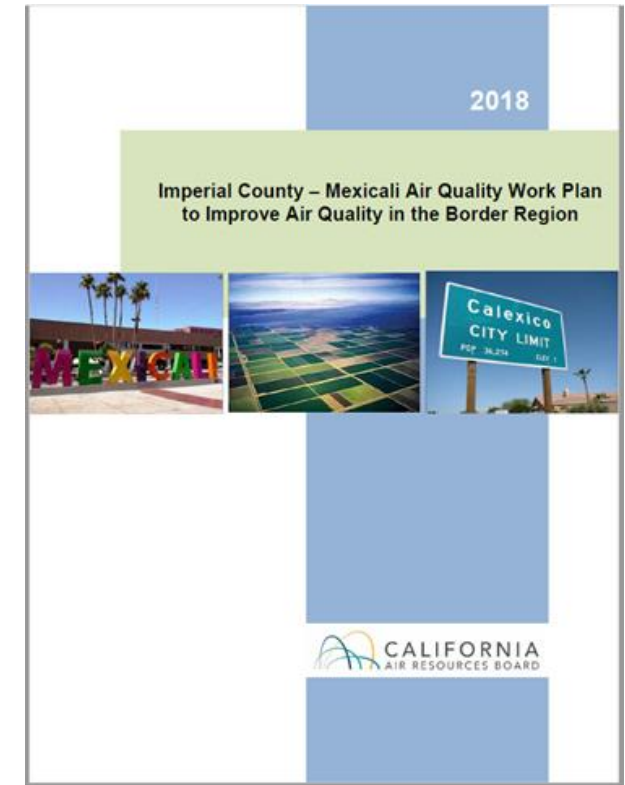
- Air quality alerts/forecasting expanded to Mexicali
- Winter media campaign
- Increased District Outreach

Vehicle Verification and Smog Check Program

- Bureau of Automotive Repair provided SPA with database of California Registered vehicles to cross-check
- Evaluating emissions benefit to increasing smog check stringency

Monitoring

- 50 PM sensors provided to Mexicali for enforcement
 - 25 sensors have been installed to date
- Continuation of PM2.5 monitoring study in Mexicali
- CARB support and training for monitoring and lab analysis
- CIMA to rehabilitate 12 monitors and add 2 new monitors in Baja California using grant funds



Draft Work Plan Actions Initiated Continued...

Reduce unpaved road emissions in Mexicali

- City of Mexicali allocated \$5 million to pave 15 miles of dirt roads

Improve border region emission inventory

- Emission inventory improvement contract for Baja California (Final report end of September 2019)

Agricultural Burning

- Imperial County APCD amending agricultural burn policy
- Plan to establish an agricultural burn program in Mexicali
- CARB committed to:
 - Provide training to enhance accuracy of daily agricultural burn determinations in Imperial County and Mexicali once program is established
 - Consider Mexicali air quality into burn determinations for Imperial County
 - Providing burn determinations to Mexicali once program established

Future Actions and Recommendations

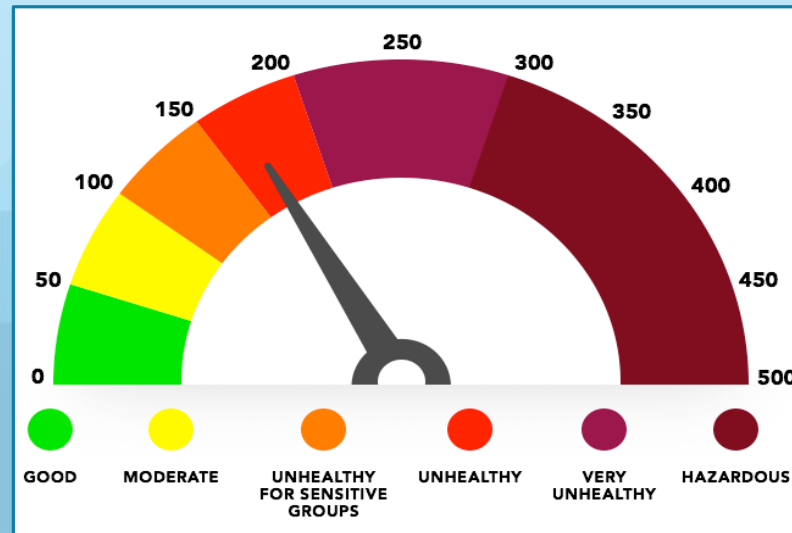
Near term actions

- Plan to Evaluate and Mitigate Windblown Dust Sources in Imperial County
- Evaluate District enforcement program
- Discuss school flag program in Imperial and improvements that can be made
- Establish a model flag program for a school in Mexicali
- Develop Spring/Summer media campaign for agricultural/open burning in Mexicali

Long term recommendations - need further discussion

- Adding fines to vehicle verification program
- Evaluate border crossing emissions

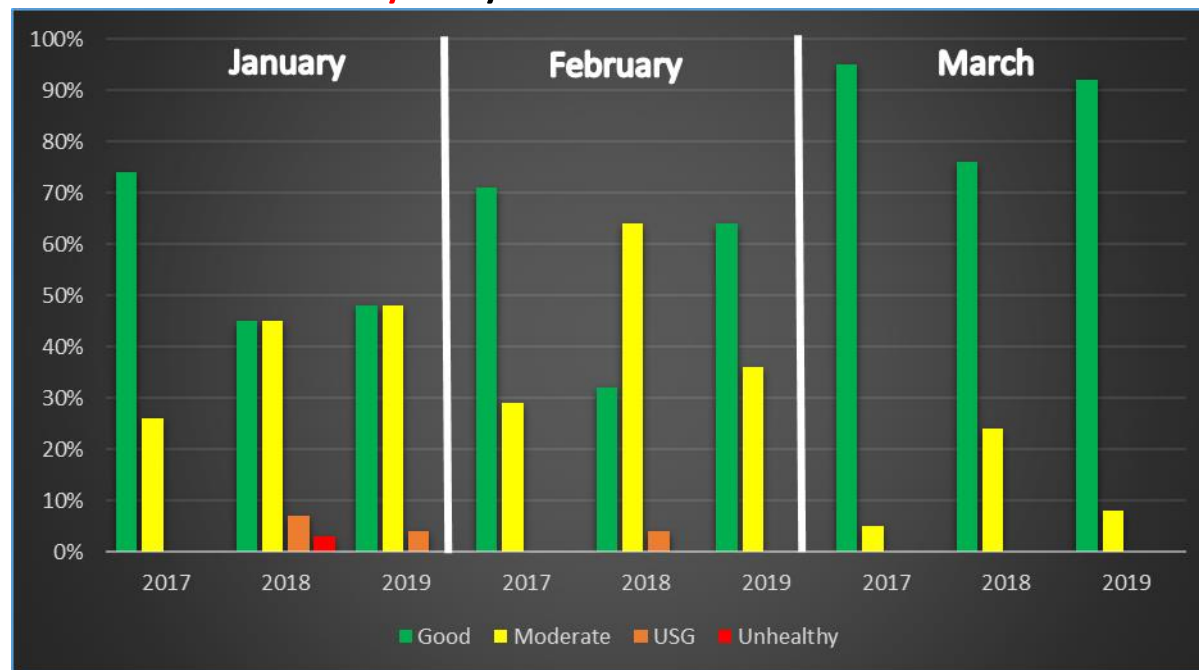
Calexico and Mexicali PM Air Quality Trends (January-March 2017-2019)



Daily Maximum AQI for PM2.5 – Calexico (Jan-Mar: 2017-2019)

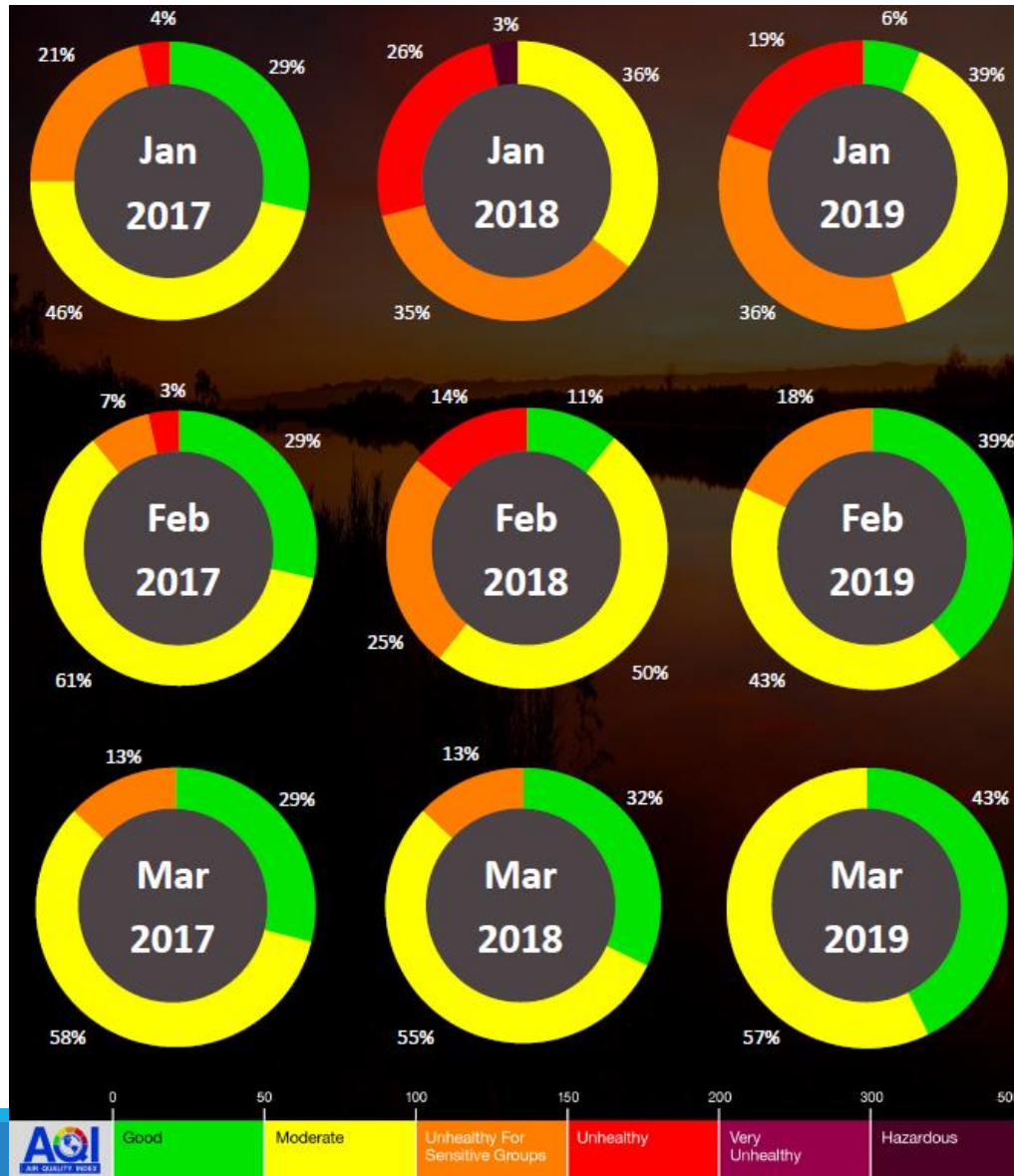


- PM2.5 at Calexico was better in 2017.
- 2019 had better air quality than 2018.
- No **unhealthy** days in 2019.

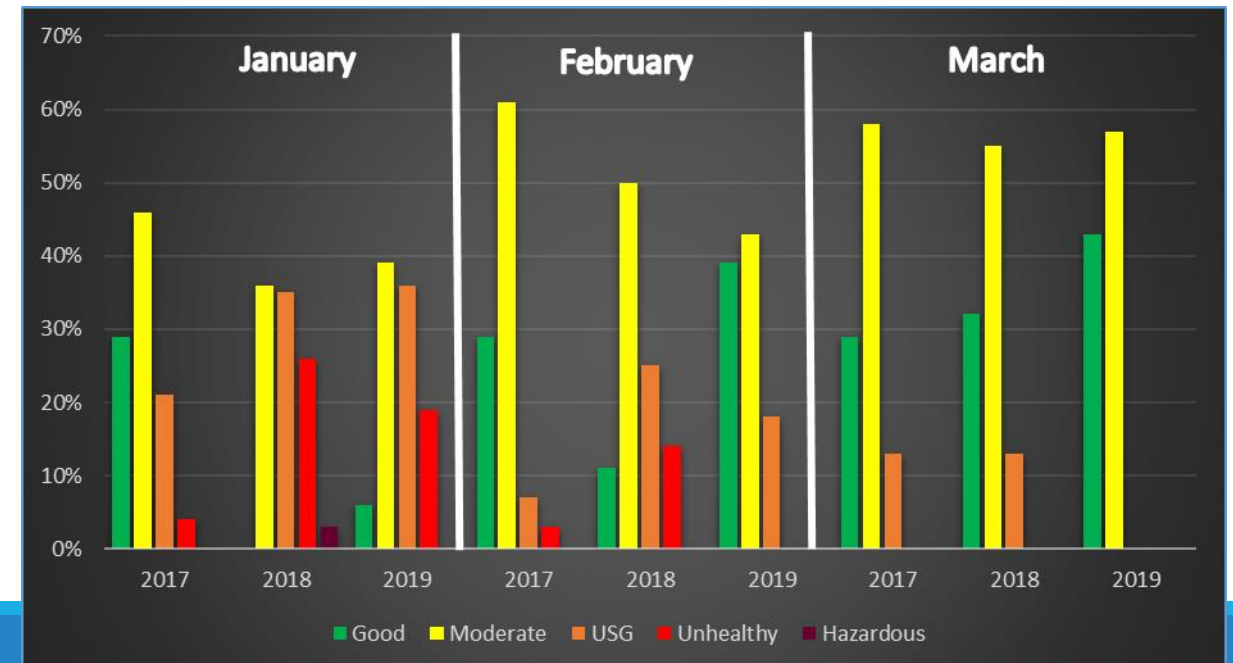


PM2.5 AQI to Concentration (ug/m ³)						
AQI	Good (0-50)	Moderate (51-100)	Unhealthy for Sensitive Groups (101-150)	Unhealthy (151-200)	Very Unhealthy (201-300)	Hazardous (>300)
PM2.5 Concentration	0-12	12.1-35.4	35.5-55.4	55.5-150.4	150.5-250.4	>250.4

Daily Maximum AQI for PM2.5 – COBACH Mexicali (Jan-Mar: 2017-2019)



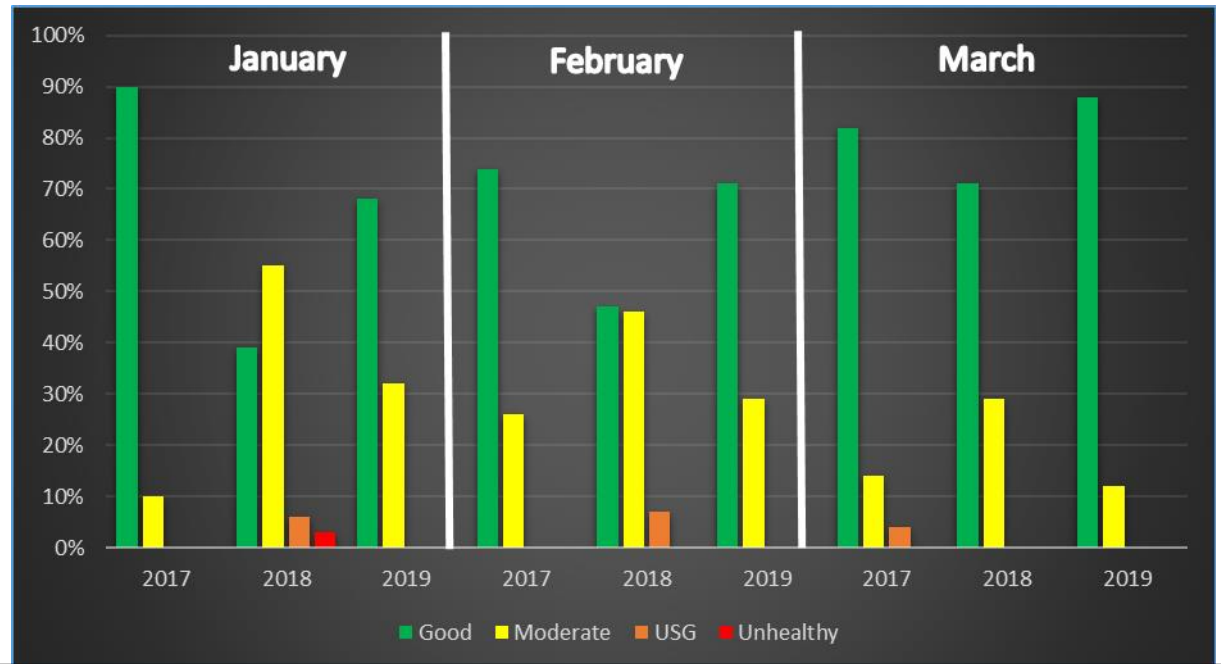
- January: 2017 had better air quality.
- January 2019 had better air quality than 2018.
- February: 2019 had better air quality. No **unhealthy** air quality days.
- March: 2019 had better air quality. No **unhealthy for sensitive group** days.



Daily Maximum AQI for PM10 – Calexico (Jan-Mar: 2017-2019)



- PM10 at Calexico was better in 2017 (except March).
- 2019 had better air quality than 2018.



PM10 AQI to Concentration (ug/m ³)						
AQI	Good (0-50)	Moderate (51-100)	Unhealthy for Sensitive Groups (101-150)	Unhealthy (151-200)	Very Unhealthy (201-300)	Hazardous (>300)
PM10 Concentration	0-54	55-154	155-254	255-354	355-424	>424

Questions?